MEDL 2145: Histological Techniques

A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 0
Lab Hours/Week: 0
OJT Hours/Week: *.*

Prerequisites:
This course requires the following prerequisite
MEDL 2140 - Histology

Corequisites: None
MnTC Goals: None

Theoretical and applied aspects of processing, staining, and evaluating tissues through microscopic study.
(3 credits: 0 Lecture/3 Lab)

B. COURSE EFFECTIVE DATES: 04/30/2020 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Evaluate the theoretical basis of tissue fixation and demonstrate proficiency using tissues provided.
2. Recommend techniques for sectioning of tissues and demonstrate proficiency of ranking paraffin embedded tissue.
3. Compare the theoretical basis of staining of tissues and demonstrate proficiency in evaluating the quality of stained sections.
4. Distinguish methods for evaluating normal and abnormal tissue and use scoring rubrics to evaluate tissue types and functional state.
5. Excise, dehydrate, embed, section and stain histological sections for medical and research evaluation.
6. Design trouble-shooting procedures for fixation, staining and sectioning of tissues.

D. LEARNING OUTCOMES (General)

None

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted